

**R307. Environmental Quality, Air Quality.****R307-221. Emission Standards: Emission Controls for Existing Municipal Solid Waste Landfills.****R307-221-1. Purpose and Applicability.**

(1) To meet the requirements of 42 U.S.C. 7411(d) and 40 CFR 60.30c through 60.36c, and to meet the requirements of the plan for Municipal Solid Waste Landfills, incorporated by reference at R307-220-2, R307-221 regulates emissions from existing municipal solid waste landfills.

(2) R307-221 applies to each existing municipal solid waste landfill for which construction, reconstruction or modification was commenced before May 30, 1991. Municipal solid waste landfills which closed prior to November 8, 1987, are not subject to R307-221. Physical or operational changes made solely to comply with the plan for Municipal Solid Waste Landfills are not considered a modification or reconstruction and do not subject the landfill to the requirements of 40 CFR 60 Subpart WWW.

(3) Municipal solid waste landfills with a design capacity greater than or equal to 2.5 million megagrams (2,755,750 tons) and 2.5 million cubic meters (3,270,000 cubic yards) are subject to the emission inventory requirements of R307-150.

**R307-221-2. Definitions and References.**

Definitions found in 40 CFR Part 60.751, [~~effective March 12, 1996~~]effective as of the date referenced in R307-101-3, are adopted and incorporated by reference, with the exclusion of the definitions of closed landfill, design capacity, and NMOC. The following additional definitions apply to R307-221:

"Closed Landfill" means a landfill in which solid waste is no longer being placed, and in which no additional solid wastes will be placed. A landfill is considered closed after meeting the criteria specified in Subsection R315-301-2[~~(+12)~~]13.

"Design Capacity" means the maximum amount of solid waste a landfill can accept, as specified in an operating permit issued under R307-415 or a solid waste permit issued under Rule R315-310.

"Modification" means an increase in the landfill design capacity through a physical or operational change, as reported in the initial Design Capacity Report.

"NMOC" means nonmethane organic compounds.

**R307-221-3. Emission Restrictions.**

(1) The requirements found in 40 CFR 60.752 through 60.759, including Appendix A, [~~effective March 12, 1996~~]effective as of date referenced in R307-101-3, are adopted and incorporated by reference, with the following exceptions and the substitutions listed in R307-221-3(2) through (5):

(a) Substitute "executive secretary" for all federal regulation references to "Administrator."

(b) Substitute "State of Utah" for all federal regulation references to "State, local or Tribal agency."

(c) Substitute "R307-221" for all references to "This subpart" or "this part."

(d) Substitute "40 CFR" for all references to "This title."

(e) Substitute "Title 19, Chapter 6" for all references to "RCRA" or the "Resource Conservation and Recovery Act," 42 U.S.C. 6921, et seq.

(f) Substitute "Rules R315-301 through 320" for all references to 40 CFR 258.

(2) Instead of 40 CFR 60.757(a)(1), substitute the following: The initial design capacity report must be submitted within 90 days after the date on which EPA approves the state plan incorporated by reference under R307-220-2.

(3) Instead of 40 CFR 60.757(a)(3), substitute the following: An amended design capacity report shall be submitted to the Executive Secretary providing notification of any increase in the design capacity of the landfill, whether the increase results from an increase in the permitted area or depth of the landfill, a change in the operating procedures, or any other means which results in an increase in the maximum design capacity of the landfill. The amended design capacity report shall be submitted within 90 days of the earliest of the following events:

(a) the issuance of an amended operating permit;

(b) submittal of application for a solid waste permit under R315-310; or

(c) the change in operating procedures which will result in an increase in design capacity.

(4) Instead of 40 CFR 60.757(b)(1)(i), substitute the following: The initial emission rate report for nonmethane organic compounds must be submitted within 90 days after EPA approval of the state plan incorporated by reference under R307-220-2.

(5) Instead of 40 CFR 60.752(b)(2)(ii)(B)(2), substitute the following: The liner shall be installed with liners on the bottom and all sides in all areas in which gas is to be collected, or as approved by the executive secretary. The liner shall meet the requirements of Subsection R315-303-[4]3(3).

#### **R307-221-4. Control Device Specifications.**

Control devices meeting the following requirements, shall be used to control collected municipal solid waste landfill emissions:

(1) an open flare designed and operated in accordance with the parameters established in Section 40 CFR Part 60.18, effective as of date referenced in R307-101-3, which is adopted and incorporated by reference into this rule; or

(2) a control system designed and operated to reduce nonmethane organic compounds by 98 weight percent; or

(3) an enclosed combustor designed and operated to reduce the outlet nonmethane organic compounds concentration to 20 parts per million as hexane by volume, dry basis at 3 percent oxygen, or less.

#### **R307-221-5. Compliance Schedule.**

(1) Except as provided in (2) below, planning, awarding of contracts, and installation of municipal solid waste landfill air emission collection and control equipment capable of meeting the

1 emission standards established under R307-221-3(1) shall be  
2 accomplished within 30 months after the date on which EPA approves  
3 the state plan incorporated by reference under R307-220-2.

4 (2) For each existing municipal solid waste landfill meeting  
5 the conditions in R307-221-1(2) whose emission rate for nonmethane  
6 organic compounds is less than 50 megagrams (55 tons) per year on  
7 the date EPA approves the state plan incorporated by reference  
8 under R307-220-2, installation of collection and control systems  
9 capable of meeting emissions standards in R307-221-1(2) shall be  
10 accomplished within 30 months of the date when the landfill has an  
11 emission rate of nonmethane organic compounds of 50 megagrams (55  
12 tons) per year or more.

13 (3) The owner or operator of each landfill with a design  
14 capacity greater than or equal to 2.5 million megagrams (2,755,750  
15 tons) and 2.5 million cubic meters (3,270,000 cubic yards) shall  
16 submit by April 1, 1997, an inventory of nonmethane organic  
17 compounds. The calculations for this inventory shall use emission  
18 factors which obtain the most accurate representation of emissions  
19 from the landfill.

20 (4) The owner or operator of a landfill requiring controls  
21 shall notify the executive secretary of the awarding of contracts  
22 for the construction of the collection and control system or the  
23 order to purchase components for the system. This notification  
24 shall be submitted within 18 months after reporting a nonmethane  
25 organic compound emission equal to or greater than 50 megagrams  
26 (55 tons) per year.

27 (5) The owner or operator shall notify the executive  
28 secretary of the initiation of construction or installation of the  
29 collection and control system. This notification shall be  
30 submitted to the executive secretary within 22 months after  
31 reporting a nonmethane organic compound emission rate equal to or  
32 greater than 50 megagrams (55 tons) per year. Landfills with  
33 commingled asbestos and municipal solid waste may include the  
34 submittals required under R307-214-1 with this notice.

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36 **KEY: air pollution, municipal landfills[\*]**

37 **Date of Enactment or Last Substantive Amendment: [January 7,**  
38 **1999]**

39 **Notice of Continuation: March 15, 2007**

40 **Authorizing, and Implemented or Interpreted Law: 19-2-104**

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